

PARVATI JAYAKUMAR

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EXPERIENCE

IT Summer Intern

June 2024 - September 2024 (Present)

Pearson Packaging Systems

Spokane, WA

- Working on building a tool for the Inventory Department that will help them understand their productivity and improve efficiency using shipping and standard logistic data from the Epicor database.

Graduate Research Assistant

February 2024 - Present

UW Laboratory for Auditory Neuroscience and Development

Seattle, WA

- Study auditory neuroscience, focusing on auditory brain development, speech and music perception, language learning in noise, and their implications for auditory disorders and hearing aid technologies.
- Use experimental design, EEG data, and advanced analyses like mTRF to explore how auditory perception works across ages (particularly infants and children) and environments to enhance the understanding of human communication and interventions.

Data Analyst

November 2021 - June 2023

MiiCare

London, United Kingdom

- Analyzed health data for older adults and individuals with disabilities, enabling personalized care improvements through concise reports and visualizations; also developed algorithms for early detection of behavioral shifts, leading to a significant 29% rise in customer engagement.
- Owned the development of MiiVoice, a user-centric MVP utilizing voice analysis to predict and analyze mental health conditions.
- Owned Natural Language Processing projects (intuition prediction, chatbot) within the company.
- Developed and evaluated ML models for classifying gait patterns based on acoustic data ([BSN 2023](#)), ([arXiv](#)) .
- Worked in an agile environment to ensure streamlined project development.

PROJECTS

Explore trends in the US homelessness rates

University of Washington

Python, Tableau

- Developed a tool providing visual insights into US Metropolitan Statistical Areas' homelessness trends since 2007, empowering stakeholders to address challenges and allocate resources effectively ([GitHub-reference](#)).

Obesity Research and Lifestyle Recommendation Tool

University of Washington

Python, Streamlit

- Developed Live Lite, a recommendation tool for obesity research and lifestyle guidance, enabling healthier choices through analysis of obesity trends and lifestyle habits ([GitHub-reference](#)).

SKILLS

Python (Python libraries: Pandas, NumPy, Matplotlib, Plotly, Seaborn, scikit-learn), R, MATLAB, Tableau, PowerBI, Fast API, Streamlit, SQL (MySQL, Epicor ERP BAQ), Azure (Databricks, Machine Learning, Docker, Kubernetes), Git

EDUCATION

University of Washington, Seattle

September 2023 - March 2025 (Present)

MS | *Data Science*

Grade: 3.92/4

Indian Institute of Information Technology Dharwad

August 2018 - August 2022

B. Tech. | *Electronics and Communication*

Grade: 9.4/10

ACHIEVEMENTS

- Institute Gold Medal and Department Gold Medal for Academic Excellence (B.Tech, IIIT Dharwad, 2022).
- Co-authored papers published in reputable sources: [BSN 2023](#), [TENCON 2022](#).